

## EAST Search History

| Ref # | Hits   | Search Query  | DBs   | Default Operator | Plurals | Time Stamp          |
|-------|--------|---|---|------------------|---------|---------------------|
| L1    | 101010 | (calculat\$3 or measur\$3 or detect\$3) same gradient   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR               | ON      | 2008/04/09<br>15:51 |
| L2    | 30333  | single adj2 frame   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR               | ON      | 2008/04/09<br>15:51 |
| L4    | 3463   | weight\$3 same (scal or factor or ratio) same difference same signal\$1                                 | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR               | ON      | 2008/04/09<br>15:53 |
| L5    | 3344   | (pre-process\$3 or prefilter or (pre-filter\$3) or (pre adj filter) or (pre adj process\$3)) SAME VIDEO | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR               | ON      | 2008/04/09<br>15:53 |
| L6    | 22     | L4 and L5   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR               | ON      | 2008/04/09<br>15:53 |
| L7    | 1      | L6 and L2   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR               | ON      | 2008/04/09<br>15:53 |
| L8    | 654    | L1 and L2   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR               | ON      | 2008/04/09<br>15:55 |
| L9    | 302599 | region\$1 with type   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR               | ON      | 2008/04/09<br>15:56 |
| L10   | 195    | L9 and l8   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR               | ON      | 2008/04/09<br>15:56 |
| L11   | 3432   | (calculat\$3 or measur\$3 or detect\$3) same local same gradient  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR               | ON      | 2008/04/09<br>16:04 |

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|-----|-------|---|---|----|----|---------------------|
| L12 | 59    | 11 and 2  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON | 2008/04/09<br>16:04 |
| L13 | 3     | "20050036704"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON | 2008/04/09<br>16:07 |
| L14 | 2     | 13 and 2  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON | 2008/04/09<br>16:08 |
| L15 | 2     | 14 and gradient   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON | 2008/04/09<br>16:08 |
| L26 | 88    | ((calculat\$3 or measur\$3 or detect\$3) same local same gradient).clm.   | US-PGPUB  | OR | ON | 2008/04/09<br>17:35 |
| L27 | 15453 | (region\$1 with type).clm.  | US-PGPUB  | OR | ON | 2008/04/09<br>17:36 |
| L28 | 1     | 26 and 27   | US-PGPUB  | OR | ON | 2008/04/09<br>17:36 |
| L29 | 329   | (BHASKARABHATLA BHASKARABHATLA-A BHASKARABHATLA-AJAY BHASKARACHARYA BHASKARAM BHASKARAN BHASKARANAND BHASKARANAND-MALAVI/KA "BHASKARANH.J" BHASKARAN-A BHASKARAN-AJAY).in.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON | 2008/04/09<br>17:38 |
| L34 | 24870 | ((348/136,620,416,619,413,699,390,407,384,607,711,584,588,598,618,608,586,620) or<br>(382/199,242,243,213,118,190,194,195,203,205,209,221,103,284,294,154,260,261,265,275,262,268,233,266) or<br>(375/240,29,240.08,240.12,240.16,240.25,240.15)) ccls. | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/04/09<br>18:05 |
| L35 | 389   | 11 AND 34   | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/04/09<br>18:05 |
| L36 | 63    | 9 and 35  | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2008/04/09<br>18:05 |
| L37 | 19    | 29 and 34   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON | 2008/04/09<br>18:06 |
| L38 | 1     | 37 and 26   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON | 2008/04/09<br>18:07 |

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| L39 | 19     | 29 and 34  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON | 2008/04/09<br>18:08 |
| L40 | 1      | 39 and 11  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON | 2008/04/09<br>18:08 |
| S1  | 2      | "20050063475"  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON | 2007/03/09<br>11:16 |
| S2  | 270    | bhaskaran .in.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON | 2007/03/09<br>11:17 |
| S3  | 66     | S2 and filter\$3   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON | 2007/05/21<br>15:32 |
| S4  | 24     | S3 and pixel   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON | 2007/03/09<br>11:20 |
| S5  | 1304   | (calculat43 or comput\$3 or measur\$3) same local with gradient\$1 | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/21<br>11:56 |
| S6  | 124227 | weight\$3 with factor\$1   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/21<br>11:29 |
| S7  | 25715  | adaptiv\$3 with filter\$3  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/21<br>11:30 |
| S8  | 857027 | video  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/21<br>11:30 |
| S9  | 144    | S5 and S6  | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/21<br>11:30 |

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| S10 | 14     | S9 and S7   | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO, JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/21<br>11:30 |
| S11 | 10     | S10 and S8  | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO, JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/21<br>11:39 |
| S12 | 102795 | prior\$1 with (encod\$3 or compress\$3)                 | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO, JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/21<br>11:40 |
| S13 | 1435   | S7 and S12  | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO, JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/21<br>11:40 |
| S14 | 279605 | region\$1 with type                                     | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO, JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/21<br>11:41 |
| S15 | 102    | S13 and S14   | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO, JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/21<br>11:41 |
| S16 | 5      | S15 and S5  | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO, JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/21<br>11:55 |
| S17 | 18549  | prior adj2 (encod\$3 or compress\$3)                    | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO, JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/21<br>11:55 |
| S18 | 254    | S7 and S8 and S17                                       | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO, JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/21<br>11:55 |
| S19 | 54240  | (calculat43 or comput\$3 or measur\$3) same gradient\$1 | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO, JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/21<br>11:57 |

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| S20 | 10     | S18 and S19   | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO, JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/21<br>12:29 |
| S21 | 266    | (prefilter or pre\$1filter) with video                              | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO, JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/21<br>12:30 |
| S22 | 25     | S21 and S17   | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO, JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/21<br>12:54 |
| S23 | 2      | S22 and (gradient and region\$1 and weight)                         | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO, JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/21<br>12:55 |
| S24 | 895    | local with gradient\$1 with (calculat\$3 or comput\$3 or measur\$3) | US-PGPUB;<br>USPAT, EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON | 2007/05/21<br>15:32 |
| S25 | 298905 | weight\$3 with (calculat\$3 or comput\$4 or measur\$4)              | US-PGPUB;<br>USPAT, EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON | 2007/05/21<br>15:33 |
| S26 | 252    | S24 and S25   | US-PGPUB;<br>USPAT, EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON | 2007/05/21<br>15:34 |
| S27 | 87     | S26 and video   | US-PGPUB;<br>USPAT, EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON | 2007/05/21<br>15:35 |
| S28 | 266    | (prefilter or pre\$1filter) with video                              | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO, JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/21<br>15:36 |
| S29 | 3      | S27 and S28   | US-PGPUB;<br>USPAT, EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON | 2007/05/21<br>15:36 |
| S30 | 2      | "20020191858"   | US-PGPUB;<br>USPAT, EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON | 2007/05/21<br>16:13 |

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| S31 | 2     | "20020150166"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/21<br>16:15 |
| S32 | 28    | ((("6456328") or ("20020094130") or ("20020054637") or ("6356592") or ("20010035969") or ("20010019588") or ("6269123") or ("20010005400") or ("6037986") or ("5930397") or ("5875003") or ("5363213") or ("5253059"))),PN. | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/05/21<br>16:18 |
| S33 | 3     | S32 and weight  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/21<br>17:05 |
| S34 | 4401  | (calculat\$3 or comput\$3) same difference\$1 same video with signal\$1   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/21<br>17:07 |
| S35 | 1015  | S34 and weight\$3   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/21<br>17:07 |
| S36 | 699   | S35 and filter\$3   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/21<br>17:08 |
| S37 | 86061 | smooth same edge  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/21<br>17:08 |
| S38 | 32    | S36 and S37   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/21<br>17:23 |
| S39 | 23    | weight\$3 same factor same applied same difference with region  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/21<br>17:38 |
| S40 | 1059  | (determin\$4 or calculat\$3 or comput\$3) same weighted same gradient\$1  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/22<br>10:08 |
| S41 | 305   | S40 and video   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/21<br>17:37 |
| S42 | 591   | apply\$3 same weight\$3 same difference with signal   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON  | 2007/05/21<br>17:38 |

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| S43 | 2       | S41 and S42  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/21<br>18:20 |
| S44 | 24      | (determin\$4 or calculat\$3 or comput\$3) same weighted same gradient\$1 same video\$1                       | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>10:22 |
| S45 | 416     | weight\$1 with factor same gradient\$1   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>10:23 |
| S46 | 67522   | (pre\$1filter or pre\$1filtering or pre\$1processing or pre\$1process)                                       | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>10:33 |
| S47 | 39      | S45 and S46  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>10:25 |
| S48 | 25      | S47 and video  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>10:25 |
| S49 | 5       | video same (pre\$1filter or pre\$1filtering or pre\$1processing or pre\$1process) same weight\$2 with factor | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>10:35 |
| S50 | 8564    | gradient same pixel\$1   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>10:36 |
| S51 | 2572372 | weight\$2  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>10:37 |
| S52 | 3537    | S50 and S51  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>10:37 |
| S53 | 113563  | pre\$1filter or pre\$1filtering  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>10:37 |
| S54 | 122     | S52 and S53  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>15:10 |

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| S55 | 2     | whether same apply\$3 same smooth\$3 same pixel same weight\$2 with factor | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>15:12 |
| S56 | 89    | whether same apply\$3 same smooth\$3 same filter\$3                        | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>16:03 |
| S57 | 60    | S56 and (video or image)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>16:04 |
| S58 | 48    | S57 and difference   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>16:52 |
| S59 | 41    | S58 and pixel  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>16:52 |
| S60 | 16    | S59 and weight\$2  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>16:52 |
| S61 | 4     | S60 and gradient   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>17:12 |
| S62 | 32    | S56 and weight\$2  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>17:16 |
| S63 | 4183  | gradient same (indicat\$3 or indicative) same region\$1                    | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>17:17 |
| S64 | 97588 | weight\$2 with factor  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>17:18 |
| S65 | 250   | S63 and S64  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>17:18 |
| S66 | 219   | S65 and difference   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>17:18 |



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| S67 | 168   | S66 and (video or image)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>17:19 |
| S68 | 50    | S67 and pixel\$1   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>17:21 |
| S69 | 67522 | (pre\$1filter or pre\$1filtering or pre\$1processing or pre\$1process)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>17:21 |
| S70 | 7     | S69 and S68  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/22<br>17:22 |
| S71 | 3202  | weight\$3 same (scal or factor or ratio) same difference same signal\$1  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/23<br>10:37 |
| S72 | 52811 | (pre-process\$3 or prefilter or (pre-filter\$3) or (pre adj filter) or (pre adj process\$3))   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/23<br>15:00 |
| S73 | 2961  | (pre-process\$3 or prefilter or (pre-filter\$3) or (pre adj filter) or (pre adj process\$3)) SAME VIDEO  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/23<br>10:39 |
| S74 | 16    | S71 and S73  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/23<br>11:12 |
| S75 | 22020 | ((348/136,620,416,619,413,699,390,407,384,607,711,584,588,598,618,608,586) or<br>(382/199,242,243,213,118,190,194,195,203,205,209,221,103,284,294,154,260,261,265,275,262,268,233,266) or<br>(375/240,29,240,08,240,12,240,16,240,25)),ccls. | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/23<br>11:59 |
| S76 | 133   | S71 and S75  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/23<br>11:59 |
| S77 | 13    | S72 and S76  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/23<br>11:59 |
| S78 | 153   | S71 and S72  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/23<br>15:00 |

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| S79 | 13      | S78 and S75                                     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/23<br>15:08 |
| S80 | 224     | local same gradient\$1 same region\$1 same type | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/23<br>15:54 |
| S81 | 5       | S80 and S71                                     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/23<br>15:09 |
| S82 | 22      | S80 and S75                                     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/23<br>15:47 |
| S83 | 10317   | local same gradient\$1                          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/23<br>15:55 |
| S84 | 6075    | local with gradient\$1                          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/23<br>15:55 |
| S85 | 1016    | S84 and video                                   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/23<br>15:56 |
| S86 | 252     | S85 and S75                                     | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/23<br>15:56 |
| S87 | 236     | S86 and (region\$1 or part\$1 or busy)          | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/23<br>15:57 |
| S88 | 2       | "4561022".pn.                                   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/23<br>18:27 |
| S89 | 350880  | GRADIENT  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/24<br>10:54 |
| S90 | 1176933 | VIDEO GRADIENT                                  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/24<br>10:55 |

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|------|-------|--|---|----|----|---------------------|
| S91  | 22051 | ((348/136,620,416,619,413,699,390,407,384,607,711,584,588,598,618,608,586) or (382/199,242,243,213,118,190,194,195,203,205,209,221,103,284,294,154,260,261,265,275,262,268,233,266) or (375/240,29,240.08,240.12,240.16,240.25)),ccls. | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON | 2007/05/24<br>10:55 |
| S92  | 14336 | S91 and S90  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON | 2007/05/24<br>10:55 |
| S93  | 887   | local adj gradient   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON | 2007/05/24<br>12:20 |
| S94  | 234   | S93 and video  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON | 2007/05/24<br>10:56 |
| S95  | 56    | S94 and S91  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON | 2007/05/24<br>10:56 |
| S96  | 318   | (calculat\$3 or measur\$3 or comput\$3) same local adj gradient\$1   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON | 2007/05/24<br>12:47 |
| S97  | 95    | S96 and video  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON | 2007/05/24<br>12:23 |
| S98  | 0     | (calculat\$3 or measur\$3 or comput\$3) same local adj gradient\$1 same noise with reduction   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB                 | OR | ON | 2007/05/24<br>12:47 |
| S99  | 0     | (calculat\$3 or measur\$3 or comput\$3) same local adj gradient\$1 same noise with reduction   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/24<br>12:47 |
| S100 | 6     | (calculat\$3 or measur\$3 or comput\$3) same local adj gradient\$1 same noise with (reduction or reduc\$3 or minimiz\$3)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/24<br>12:48 |
| S101 | 6     | (calculat\$3 or measur\$3 or comput\$3) same (local adj gradient\$1) same noise with (reduction or reduc\$3 or minimiz\$3)   | US-PGPUB;<br>USPAT;<br>USOCR; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/24<br>12:53 |

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| S102 | 35126 | lim.in.   | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO, JPO;<br>DERWENT;<br>IBM, TDB | OR | ON | 2007/05/24<br>12:53 |
| S103 | 29    | S102 and (two with dimensional with signal with processing)   | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO, JPO;<br>DERWENT;<br>IBM, TDB | OR | ON | 2007/05/24<br>12:55 |
| S104 | 5     | S103 and gradient   | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO, JPO;<br>DERWENT;<br>IBM, TDB | OR | ON | 2007/05/24<br>12:57 |
| S105 | 0     | S102 and S93  | US-PGPUB;<br>USPAT;<br>USOCR, FPRS;<br>EPO, JPO;<br>DERWENT;<br>IBM, TDB | OR | ON | 2007/05/24<br>12:57 |
| S106 | 2     | "5438374".pn.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM, TDB                 | OR | ON | 2007/05/24<br>18:46 |
| S107 | 1     | S106 and (filter or filtering or prefilter or "pre-filter") and (pel or pixel\$1)   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM, TDB                 | OR | ON | 2007/05/24<br>18:54 |
| S108 | 2     | "20050063475"   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM, TDB                 | OR | ON | 2007/05/24<br>18:54 |
| S109 | 72    | {US-20050063475-\$ or US-20050220354-\$ or US-20030235248-\$ or US-20050094870-\$ or US-20040151243-\$ or US-20040091168-\$ or US-20050135699-\$ or US-20020118756-\$ or US-20050036704-\$ or US-20040022318-\$ or US-20030095197-\$ or US-20020094130-\$ or US-20010017887-\$ or US-20040208385-\$ or US-20040131267-\$ or US-20040037465-\$ or US-20040032906-\$ or US-20030097069-\$ or US-20030169944-\$ or US-20040008901-\$).did. or (US-7127122-\$ or US-7162081-\$ or US-7158680-\$ or US-6728416-\$ or US-6636645-\$ or US-6442203-\$ or US-6173084-\$ or US-5875040-\$ or US-5341224-\$ or US-5818536-\$ or US-5592228-\$ or US-4561022-\$ or US-5079630-\$ or US-4745562-\$ or US-5122873-\$ or US-4785349-\$ or US-4613894-\$ or US-5226114-\$ or US-5438374-\$ or US-6950473-\$ or US-6421468-\$ or US-5224176-\$ or US-6975689-\$ or US-5742346-\$ or US-6724826-\$ or US-6456328-\$).did. or (US-6335990-\$ or US-6480544-\$ or US-4849810-\$ or US-5363213-\$ or US-7003174-\$ or US-5430479-\$ or US-5552825-\$ or US-6041145-\$ or US-6928196-\$ or US-6442202-\$ or US-5832115-\$ or US-5502482-\$ or US-7110602-\$ or US-RE38420-\$ or US-6097328-\$ or US-6075905-\$ or US-5703965-\$ or US-7130479-\$ or US-6720997-\$ or US-6665439-\$ or US-5808685-\$ or US-5717463-\$ or US-5142592-\$ or US-5016173-\$ or US-6094511-\$).did. or (EP-863671-\$).did. | US-PGPUB;<br>USPAT; EPO  | OR | ON | 2007/05/25<br>10:34 |
| S110 | 50    | S109 and ((neighbor\$4 or surround\$3) and pixel\$1)  | US-PGPUB;<br>USPAT; EPO  | OR | ON | 2007/05/25<br>13:21 |
| S111 | 47    | S110 and filter\$3  | US-PGPUB;<br>USPAT; EPO  | OR | ON | 2007/05/25<br>10:38 |
| S112 | 52886 | (pre-process\$3 or prefilter or (pre-filter\$3) or (pre adj filter) or (pre adj process\$3))  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM, TDB                 | OR | ON | 2007/05/25<br>10:38 |
| S113 | 24    | S112 and S111   | US-PGPUB;<br>USPAT; EPO  | OR | ON | 2007/05/25<br>10:57 |

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|------|--------|---|---|----|----|---------------------|
| S114 | 8      | S113 and smooth\$3 and normaliz\$3  | US-PGPUB;<br>USPAT; EPO                                 | OR | ON | 2007/05/25<br>10:58 |
| S115 | 1      | "6041145".pn. and (threshold\$3 and smooth\$3)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/25<br>12:21 |
| S117 | 1046   | pixel\$ same differenc\$3 same (current or target) same (neighbor\$3 or surround\$3)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/25<br>12:24 |
| S118 | 67615  | (pre\$1filter or pre\$1filtering or pre\$1processing or pre\$1process)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/25<br>12:24 |
| S119 | 153    | S118 and S117   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/25<br>12:24 |
| S120 | 78     | S119 and smooth\$3  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/25<br>13:16 |
| S121 | 6843   | (calculat\$3 or comput\$3 or measur\$3) same (difference or differential\$3) same (video or input or picture\$1) same output same filter\$3   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/25<br>14:09 |
| S122 | 22051  | ((348/136,620,416,619,413,699,390,407,384,607,711,584,588,598,618,608,586) or<br>(382/199,242,243,213,118,190,194,195,203,205,209,221,103,284,294,154,260,261,265,275,262,268,233,266) or<br>(375/240,29,240,08,240,12,240,16,240,25)), ccls. | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/25<br>13:20 |
| S123 | 259    | S122 and S121   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/25<br>13:20 |
| S124 | 86218  | ((neighbor\$4 or surround\$3) and pixel\$1)   | US-PGPUB;<br>USPAT; EPO                                 | OR | ON | 2007/05/25<br>13:21 |
| S125 | 52     | S123 and gradient   | US-PGPUB;<br>USPAT; EPO                                 | OR | ON | 2007/05/25<br>13:21 |
| S126 | 28     | S125 and S124   | US-PGPUB;<br>USPAT; EPO                                 | OR | ON | 2007/05/25<br>13:21 |
| S127 | 268003 | filter with output  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/25<br>14:08 |
| S128 | 201690 | (video or picture\$1) with input\$3   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB | OR | ON | 2007/05/25<br>14:09 |

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| S129 | 17507 | S127 and S128  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON  | 2007/05/25<br>14:10 |
| S130 | 1289  | S129 and S112  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON  | 2007/05/25<br>14:10 |
| S131 | 251   | S130 and S122  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON  | 2007/05/25<br>14:10 |
| S132 | 2     | "4561022".pn.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON  | 2007/05/27<br>15:12 |
| S133 | 2     | "5363213".pn.  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON  | 2007/05/27<br>15:33 |
| S134 | 279   | BHASKARAN .IN.   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON  | 2007/05/27<br>15:33 |
| S135 | 70    | S134 AND FILTER\$3   | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON  | 2007/05/27<br>15:34 |
| S136 | 22    | ((("6175592") or ("6148027") or ("5986710") or ("5933194") or ("5881180") or ("5847766") or ("5552829") or ("5260782") or ("20020064228") or ("20020054639") or ("20010008544")).PN. | US-PGPUB;<br>USPAT; FPRS;<br>EPO; JPO;<br>DERWENT;<br>IBM_TDB | OR | OFF | 2007/11/10<br>14:41 |
| S137 | 2     | S136 and ((smooth or edge) with region)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON  | 2007/11/10<br>14:10 |
| S138 | 4     | S136 and (within near4 frame)  | US-PGPUB;<br>USPAT; EPO;<br>JPO;<br>DERWENT;<br>IBM_TDB       | OR | ON  | 2007/11/10<br>14:41 |

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